



AGENDA MEMORANDUM

Action Item for the City Council Meeting December 7, 2021

DATE: December 7, 2021

TO: Peter Zaroni, City Manager

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<p>Purchase of Battery Backup System (BBS) for Public Works (City Traffic Signals)</p>

CAPTION:

Motion authorizing the purchase of 108 Battery Backup Systems (BBS) for City traffic signals from Paradigm Traffic Systems Inc., of Houston, Texas in the amount of \$540,000 for the Department of Public Works with FY 2022 funding available from the Streets Bond 2018 Fund.

SUMMARY:

This motion approves the purchase of 108 Battery Backup Systems (BBS) through the Buyboard Cooperative. The BBS at each location will be installed under a service agreement following the City's procurement process.

BACKGROUND AND FINDINGS:

The Department of Public Works aims to improve safety at all signalized intersections in the City by providing continuous traffic signal operations during a power outage. During outages, a Battery Backup System (BBS) can continue to provide power for traffic signal operations. A typical power outage lasts between 1 to 2 hours. A BBS is expected to supply power to a traffic signal for 4 to 6 hours.

There are 252 signalized intersections maintained by the Department of Public Works. Only 93 of these intersections are equipped with a BBS. These 93 intersections were upgraded as part of Capital Improvement Program projects and routine maintenance upgrades.

The Department of Public Works plans to upgrade the remaining 159 intersections between FY 2022 and FY 2025. In the FY 2022 budget, there is funding available to upgrade 108 intersections with a BBS. Each BBS comes equipped with batteries, a remote management system, a cabinet to house all the equipment, and a five-year warranty for the system. Delivery of the BBS is estimated to take 45 to 60 days.

PROCUREMENT DETAIL:

The procurement is through the BuyBoard Cooperative. Contracts awarded through the BuyBoard Cooperative have been competitively procured in compliance with Texas Local and State procurement requirements.

Funding for the project was secured in previous years of the Traffic Signal Improvements CIP. However, the project was not executed. Therefore, staff is carrying the funding forward in the FY 2022 Capital Budget to be completed along with other initiatives that support the City's Vision Zero Program.

ALTERNATIVES:

The alternative is to not purchase battery backup systems which will leave a majority of the City's signalized intersections without the ability to maintain traffic signal operations during a typical power outage.

FISCAL IMPACT:

The fiscal impact in FY 2022 for the Public Works Department is \$540,000.

Funding Detail:

Fund:	3556	Street Bond 2018 Fund
Organization/Activity:	18048A3556EXP	
Mission Element:	051	
Project # (CIP Only):	18048	TxDOT Participation/Traffic Congestion Management
Account:	550720	Equipment Purchase CIP
Amount:	\$540,000	

RECOMMENDATION:

Staff recommends approval of the purchase of 108 battery backup systems (BBS) Alpha Novus 1100 HP Battery Backup Assembly Systems (BBS) from Paradigm Traffic Systems Inc., of Houston, Texas as presented.

LIST OF SUPPORTING DOCUMENTS:

Price Sheet
Locations